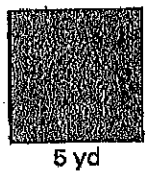
LESSON 8.3

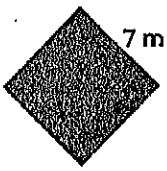
NAME _____ DATE _____

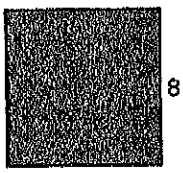
Practice A

For use with pages 424–429

Use the formula Area = (side)^2 to find the area of the square.

1. 

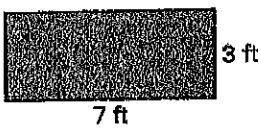
2. 

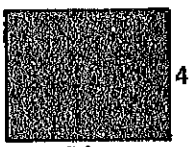
3. 

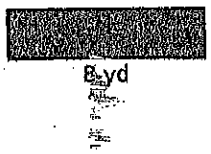
Sketch the figure and find its area.

4. a square with side lengths of 6 feet
5. a square with side lengths of 10 inches

Use the formula Area = (base)(height) to find the area of the rectangle.

6. 

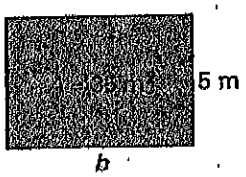
7. 

8. 

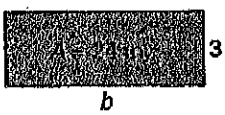
Sketch the figure and find its area.

9. a rectangle with a base of 9 meters and a height of 10 meters
10. a rectangle with a base of 12 feet and a height of 4 feet

***A* gives the area of the rectangle. Find the missing side length.**

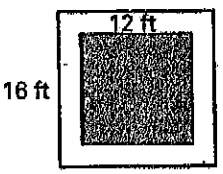
11. 

12. 

13. 

A square rug covers part of the floor of a square dining room.

14. Find the area of the rug.
15. Find the area of the dining room floor.



Lesson 8.3

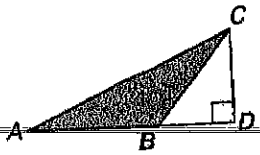
LESSON 8.4

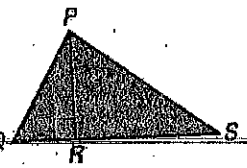
NAME _____ DATE _____

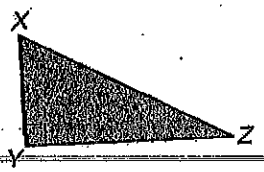
Practice A

For use with pages 430–436

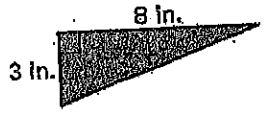
Identify a base of the shaded triangle and its corresponding height.

1. 

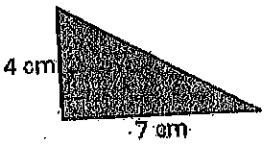
2. 

3. 

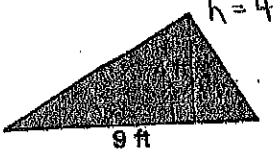
Find the area of the right triangle.

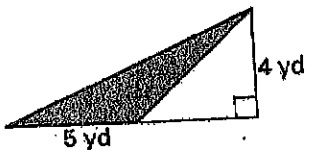
4. 

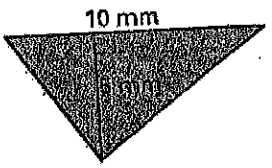
5. 

6. 

Find the area of the shaded triangle.

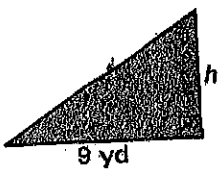
7. h = 4ft 

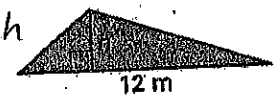
8. 

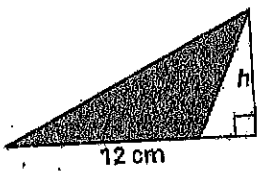
9. 

h = 5mm

A gives the area of the triangle. Find the height h.

10. $A = 27\ \text{yd}^2$ 

11. $A = 18\ \text{m}^2$ h=h 

12. $A = 48\ \text{cm}^2$ 

In Exercises 13 and 14, the scale factor of two similar triangles is given. Find the ratio of their areas.

13. The scale factor of $\triangle PQR$ to $\triangle XYZ$ is $\frac{3}{4}$.

14. The scale factor of $\triangle PQR$ to $\triangle XYZ$ is $\frac{2}{5}$.

15. The base of a triangular camping sign is 6 feet and the height of the sign is 3 feet. Find the area of the sign.

Lesson 8.4

LESSON 8.5

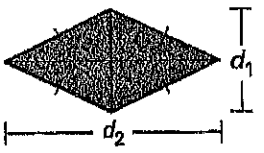
NAME _____ DATE _____

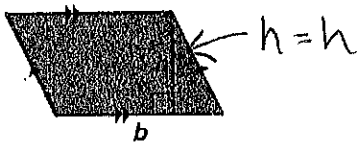
Practice A

For use with pages 438–445

Match the area formula with the figure.

1. Area = $\frac{1}{2}$ (product of diagonals)
2. Area = (base)(height)

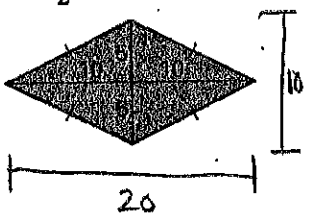
A. 

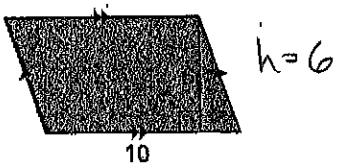
B. 

Match the quadrilateral with the corresponding area equation.

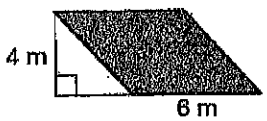
A. $A = (10)(6)$ B. $A = \frac{1}{2}(10)(20)$ C. $A = (20)(7)$

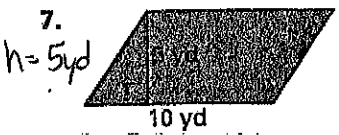
3. 

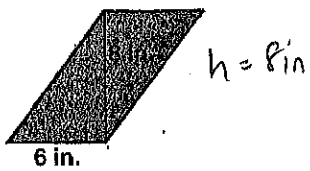
4. 

5. 

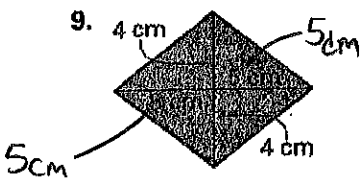
Find the area of the parallelogram.

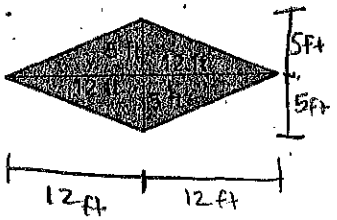
6. 

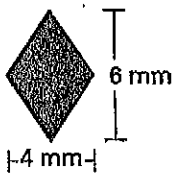
7. 

8. 

Find the area of the rhombus.

9. 

10. 

11. 

The traffic sign shown at the right is used to direct traffic flow.

12. Find the area of parallelogram *ABCD*.
13. Find the area of parallelogram *DCFE*.
14. Find the area of polygon *ABCFED*.